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MEMORANDUM FOR: DISTRIBUTION

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Director, Consolidated SAFE Project Office/ODP

SUBJECT : Point Paper for SAFE Steering Committee

Reference: CSPO ODP-81-944 dated 21 July, Subject: Third Quarter 1981 SAFE Steering Committee Meeting

As cited in the referenced memo, attached is a Point Paper to assist Steering Committee members in preparing for the 7 August 1981 meeting. The meeting will be held at Langley Headquarters Building in Room 7E32 at 1430 to 1530 hours.



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Director, Consolidated SAFE  
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Point Paper for Steering Committee Meeting 7 August 1981

PURPOSE - The following provides the Steering Committee members and other attendees with major points of interest that will be covered in the next meeting. The Project Director will follow the agenda provided in the referenced memorandum. Major items to be covered are as follows:

- o Project Schedule Overview
  - Major milestones accomplished since last meeting. Preview of remaining milestones in FY 1981.
  - Highlight activities that are behind schedule and review anticipated impacts. Discuss 3-6 month problem for BLOCK 1 and steps to alleviate potential slip.
  - Review outyear milestones.
- o Technical Overview/System Development Status
  - Preliminary Design Review completed March 1981.
    - . Presentations on software development caused much concern on part of government participants.
    - . Government concerns precipitated a TRW internal audit of SAFE Project.
      - Major findings were a 3-6 month "negative slack condition" (interpreted to mean slip by CSPO) and that management of software development was inadequate.
      - Corrective actions have been identified and are in process (will review actions with Steering Committee, i.e., development of a Process Design Document encompassing a full system plan; a rephrasing of capabilities within BLOCK 1; realignment and adjustments to TRW Project Management organization to include key personnel acquisitions; BLOCK 1 requirements for IOC have been finalized.
  - Initial Design Review Increment 2 for BLOCK 1 and Detailed Design Review Increment 1 for BLOCK 1 completed March 1981.

- Conversion Requirements Review (CRR-2) completed in March 1981.
  - . Good review of current production requirements for DIA from Installation Files, Order of Battle Files, ELINT Files, HUMINT Files, and Central Reference Division Files.
  - . TRW operational concept on how the above requirements will be accommodated on SAFE was good initial effort but still needs substantial work.
  - . Finalization of Conversion Requirements is scheduled for the BLOCK 3 Initial Design Review (IDR) in February 1982 - finalization of conversion specification.
  - . DIA initiating in-house effort to convert remaining DIAOLS Files to DIA-SAFE.
  - . SAFE-C conversion requirements have been defined for the IOC increment (major change was to drop the 2 years accumulation of electrical traffic).
    - BLOCK 1 Data Definition document was disapproved due to lack of detail; it will be resubmitted prior to next BLOCK 1 review.
- BLOCK 3 In-Progress Review - completed July 1981.
  - . Again a good effort on the part of TRW.
  - . Appropriate design issues were raised and the CSPO is working these as action items with contractor.
  - . Coordination by BLOCK 3 designers and SAFE User Language (SUL) personnel was deficient; corrective action is in process.
  - . TRW use of simulator should be more toward assisting in resolving design issues and less toward determining hardware numbers; corrective action in process.
  - . Next Progress Review scheduled for November 1981, followed by Initial Design Review (IDR) for BLOCK 3 in February 1982.
- User Interface/SAFE User Language (SUL)
  - . Functionality defined and validated
  - . Current work on definition of SUL commands and language structure ongoing.

- . Excellent support from MITRE and OSD.
- . On schedule for BLOCK 1.
- Communications Status
  - . WBCS - Installation satisfactorily completed at Langley Hqs; electrical testing started 3 August 1981 to be completed 15 October 1981.
  - . Inter-Computer Communications (ICC) - Implementation review completed June 1981 at Burroughs.
    - Burroughs testing network adapters.
    - Hyper channel implementation for B7800 and B6900 - scheduled for November 1981 at Development Facility.
  - . Processor Interface Unit (PIU) - Preliminary Design Review (PDR) completed in June 1981 at Burroughs; will utilize Burroughs Datacomm with customized interface to WBCS.
    - Potential bottleneck with PIU throughput being analyzed (Network Support Processor (NSP) packet handling speed).
    - PIU - Critical Design Review (CDR) scheduled for September 1981; results of analysis and recommended corrective actions will be presented by Burroughs.
  - . Bus Interface Unit (BIU) - estimated cost for making BIU compatible with unique Delta Data Interface, as well as other standard interfaces is \$125K (Change Order #30).
    - Total cost of BIU (currently estimated at \$3000) is of concern to CSPO.
    - Critical Design Review (CDR) scheduled for November 1981.
  - . Crypto Development
    - Units (Crypto Modules (CM) and KG 48s) delivered to TRW by NSA are undergoing test; effort is progressing well.
    - Critical Design Review (CDR) was held for the CM at Motorola with CSPO, NSA and TRW as participants.
    - Change Order (C.O.) for Cryptographic Initiation Key (CIK)   (for CIA SAFE only) is under

- Site Preparation - Phase I renovation of CIA computer center nearing completion; test equipment to be installed October 1981; Phase II renovation to start January 1982; installation of a B6900 scheduled for September 1981.

o Contract and Financial Status

- TRW staff posture is close to planned manning levels; (staffed [REDACTED]).

- Change Orders 8 - Security, harden development facility [REDACTED] - Deletion of Terminals from TRW Contract [REDACTED] Deletion of printers from TRW [REDACTED] have all been negotiated; of 30 Change Orders, 22 have been negotiated (11 of which were no cost); 3 not proposed by TRW to date; 5 have been proposed and are under evaluation by the CSPO.

- FY 81 supplemental of [REDACTED] has been obligated against the contract; TRW required an additional [REDACTED] which the CIA has provided (primarily PIU and BIU cost increases).

- FY 82 still looks good; however, latest TRW replanning activity for BLOCK 1 could have some impact.

- CSPO will cover FY 83 and FY 84 funding requirements - currently total funding remains within DCI guidance, however, inflation rates above those planned certainly will have some impact on 82, 83 and 84.

- Award Fee - The period ending 31 March 1981 TRW received [REDACTED]

- . Management and Schedule are of concern due to their decreasing trend.

o Related Activities

- Mr. [REDACTED] visited TRW Facility in April 1981. As a result:

- . Instituted procedures for controlling changes to DIAOLS in order to minimize and control impacts to DIA SAFE.

- . Reevaluated CSPO Award Fee procedures; appear to be performed properly and fairly.

- [REDACTED] visited TRW Facility in July 1981; briefing went well.

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- . [ ] emphasized the importance of SAFE to the DIA and registered concerns that the consolidated effort continue until the DIA portion is complete and that DIA get up and running before the money runs out.
- Mr. Casey, DCI, visited TRW Facility in July 1981; the 30-minute SAFE presentation went well.
  - . He expressed interest in how the CIA analyst would interact with the system.
- o Issues
  - TRW's latest planning effort to tighten management and regain control of software development, i.e., Process Design Document (PDD) and BLOCK 1 initiatives to meet schedule.
  - PIU/BIU development
    - . PIU performance.
    - . BIU cost.
  - TRW is behind schedule 3-6 months; full recovery is improbable; alternatives are in effect.
  - After current TRW planning effort for BLOCK 1 is complete and BLOCK 3 impacts are known, the DIA new building schedule and BLOCK 3 delivery schedule should be brought into sync.
  - Change must be strictly controlled and minimized by both sides.
  - Overall funding picture and CSPO's actions to stay within DCI guidance (concern for double-digit inflation rates impact on program).